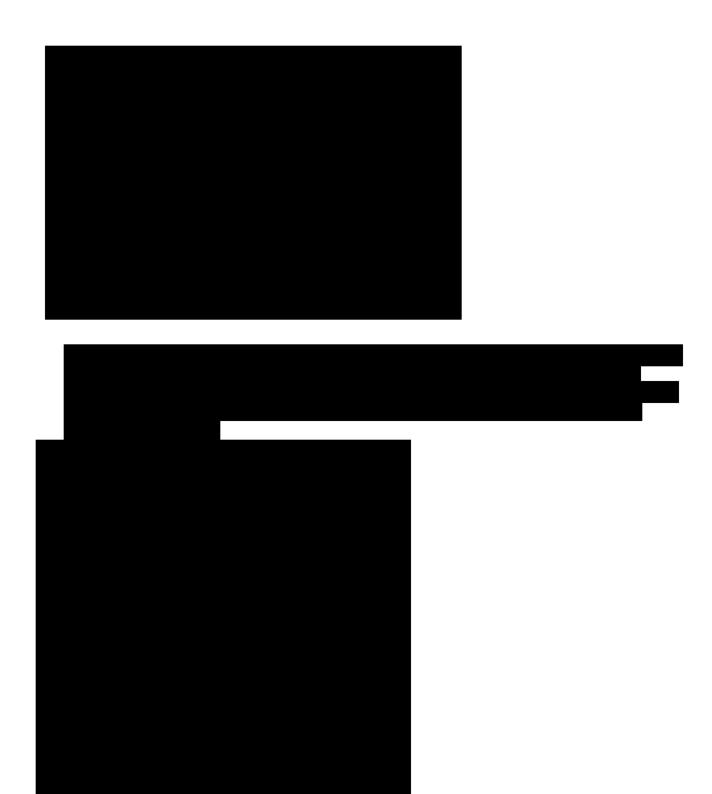


Genetic Modifications: Intergeneric genes included:

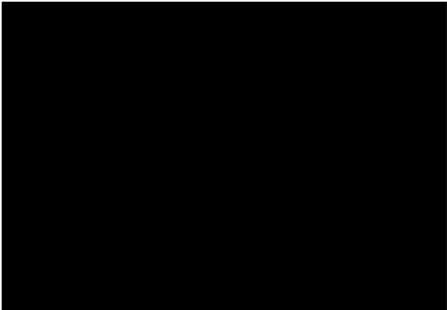
Gene	Donor Organism	Source

were used during intermediate construction steps but not left in MCAN strains.
Some of these genes are derived from sequences from various s species, and, while all have been chemically synthesized, they may qualify as intrageneric.
Construction Process.
Plasmids:



Plasmid maps





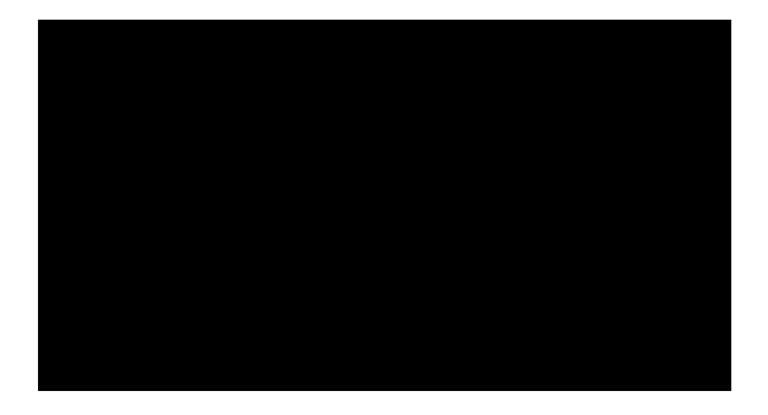








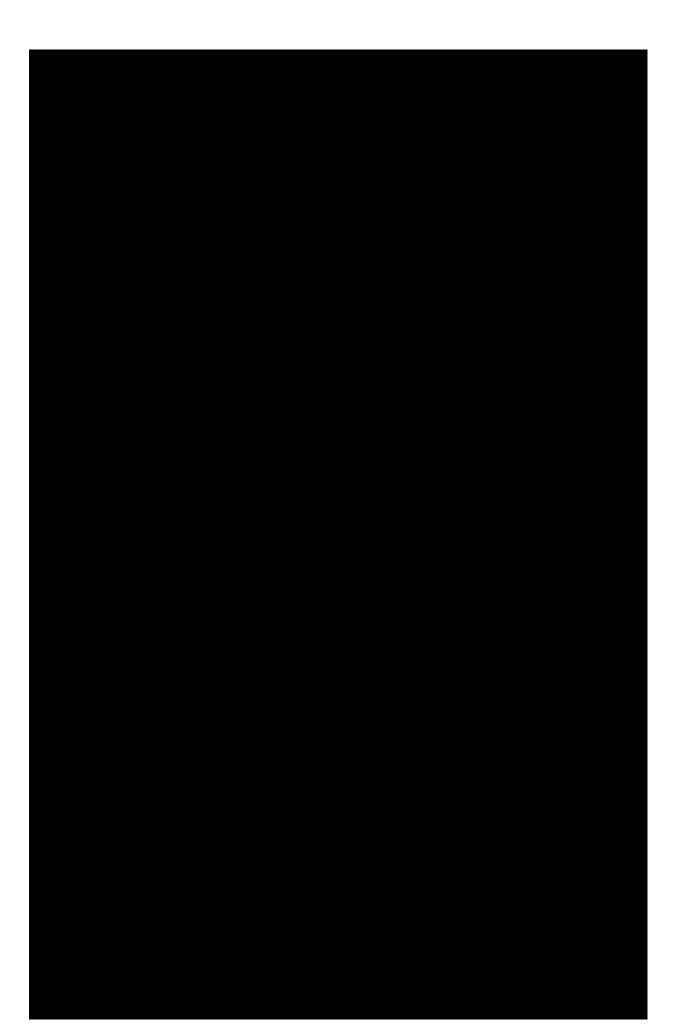






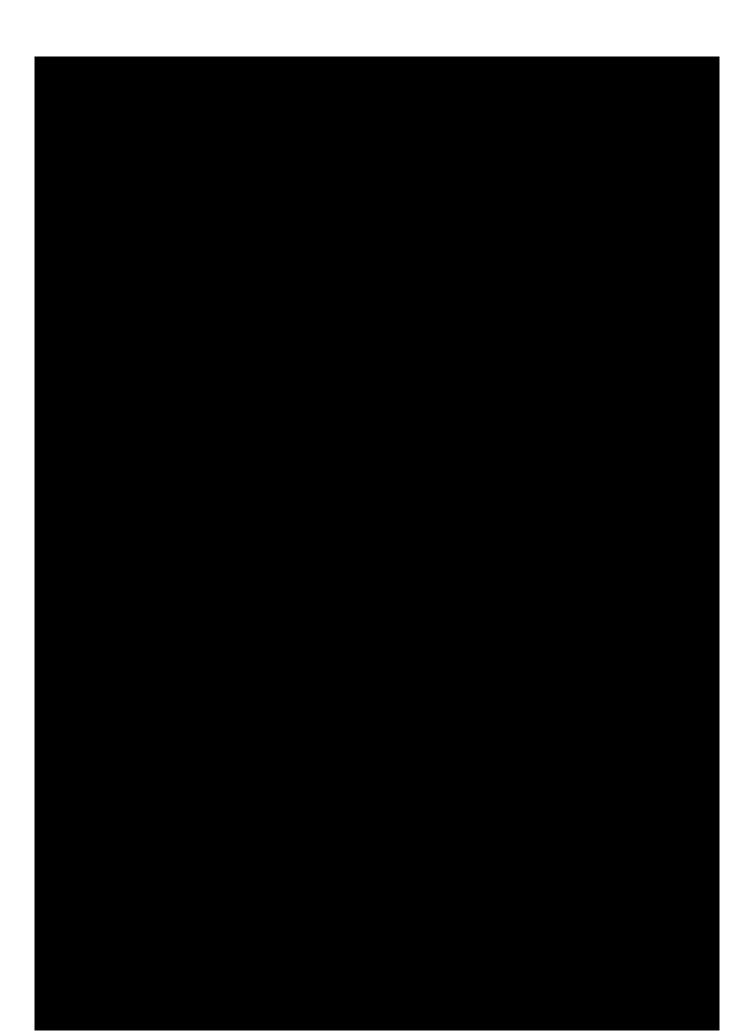




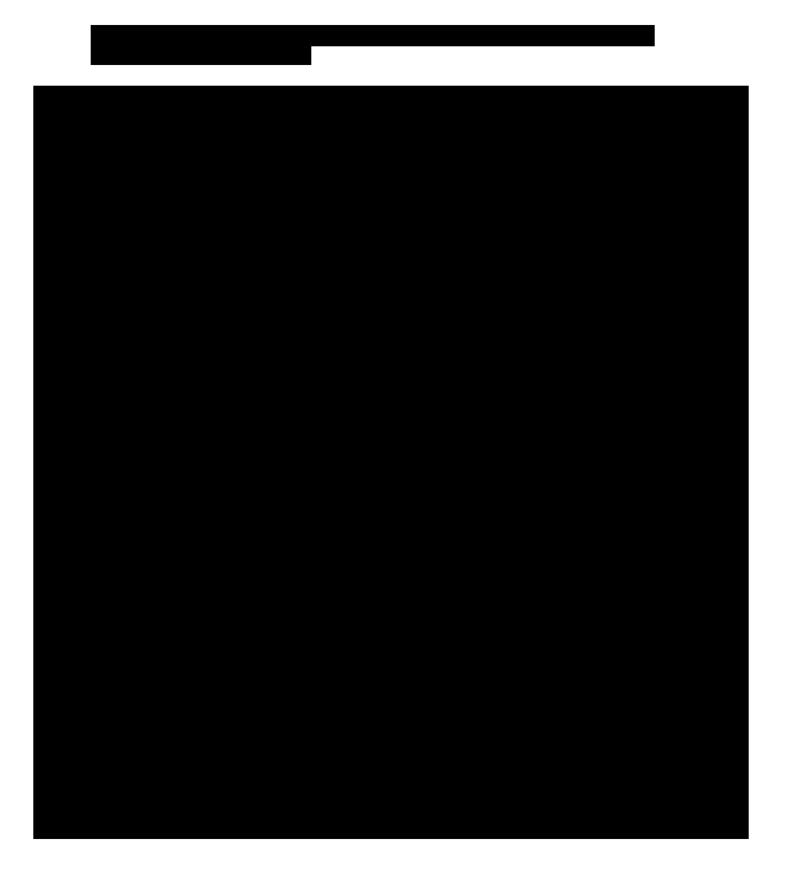


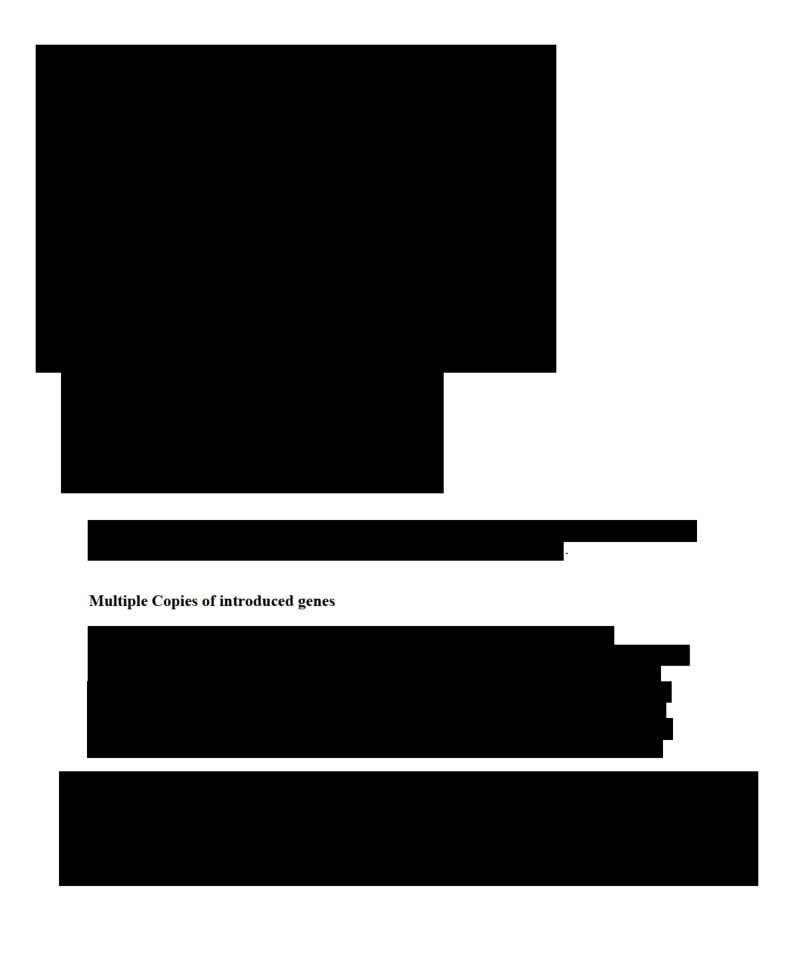














Production Volume

General Conclusions.	

The strains are all intergeneric

Some have additional genes . All antibiotic resistance genes are removed once the insertions take place. The description of each construction process is complete.